<table>
<thead>
<tr>
<th><strong>Job title</strong></th>
<th>Postdoctoral Researcher – Neglected Tropical Diseases</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Division</strong></td>
<td>Medical Sciences Division</td>
</tr>
<tr>
<td><strong>Department</strong></td>
<td>Nuffield Department of Medicine</td>
</tr>
<tr>
<td><strong>Location</strong></td>
<td>Big Data Institute, Li Ka Shing Centre for Health Information and Discovery, Old Road Campus, Oxford, OX3 7LF</td>
</tr>
<tr>
<td><strong>Grade and salary</strong></td>
<td>Grade 8: £40,792 - £48,677 per annum</td>
</tr>
<tr>
<td></td>
<td><em>Whilst the role is a grade 8 (£40,792 - £48,677 p.a.) position, we would be willing to consider candidates with potential but less experience who are seeking a development opportunity, for which an initial appointment would be at grade 7 (£32,236 - £39,609 p.a.) with the responsibilities adjusted accordingly. This would be discussed with applicants at interview/appointment where appropriate.</em></td>
</tr>
<tr>
<td><strong>Hours</strong></td>
<td>Full time (part-time hours may be considered pro-rata)</td>
</tr>
<tr>
<td><strong>Contract type</strong></td>
<td>Fixed term contract until 30th June 2021</td>
</tr>
<tr>
<td><strong>Reporting to</strong></td>
<td>Senior Group Leader</td>
</tr>
<tr>
<td><strong>Vacancy reference</strong></td>
<td>140495</td>
</tr>
<tr>
<td><strong>Additional information</strong></td>
<td>Funded by the Bill and Melinda Gates Foundation</td>
</tr>
<tr>
<td></td>
<td><em>Some overseas travel to collaborators, who are based in Africa, Europe and USA</em></td>
</tr>
<tr>
<td><strong>Research topic</strong></td>
<td>Neglected tropical diseases including Trachoma, Schistosomiasis, Lymphatic Filariasis and cross-disease questions</td>
</tr>
<tr>
<td><strong>Principal Investigator / supervisor</strong></td>
<td>Prof Deirdre Hollingsworth</td>
</tr>
<tr>
<td><strong>Project team</strong></td>
<td>Hollingsworth Group</td>
</tr>
<tr>
<td><strong>Project web site</strong></td>
<td><a href="https://www.bdi.ox.ac.uk/Team/deirdre-hollingsworth">https://www.bdi.ox.ac.uk/Team/deirdre-hollingsworth</a></td>
</tr>
<tr>
<td><strong>Funding partner</strong></td>
<td>The funds supporting this research project are provided by the Bill &amp; Melinda Gates Foundation.</td>
</tr>
<tr>
<td><strong>Recent publications</strong></td>
<td><a href="https://www.bdi.ox.ac.uk/publications?author=deirdre-hollingsworth">https://www.bdi.ox.ac.uk/publications?author=deirdre-hollingsworth</a></td>
</tr>
</tbody>
</table>
Big Data Institute

About the University of Oxford

Welcome to the University of Oxford. We aim to lead the world in research and education for the benefit of society both in the UK and globally. Oxford’s researchers engage with academic, commercial and cultural partners across the world to stimulate high-quality research and enable innovation through a broad range of social, policy and economic impacts.

We believe our strengths lie both in empowering individuals and teams to address fundamental questions of global significance, while providing all our staff with a welcoming and inclusive workplace that enables everyone to develop and do their best work. Recognising that diversity is our strength, vital for innovation and creativity, we aspire to build a truly diverse community which values and respects every individual’s unique contribution.

While we have long traditions of scholarship, we are also forward-looking, creative and cutting-edge. Oxford is one of Europe’s most entrepreneurial universities. Income from external research contracts in 2016/17 exceeded £564m and we rank first in the UK for university spin-outs, with more than 130 companies created to date. We are also recognised as leaders in support for social enterprise.

Join us and you will find a unique, democratic and international community, a great range of staff benefits and access to a vibrant array of cultural activities in the beautiful city of Oxford.

For more information please visit www.ox.ac.uk/about/organisation

Medical Sciences

The Medical Sciences Division is an internationally recognized centre of excellence for biomedical and clinical research and teaching. We are the largest academic division in the University of Oxford

World-leading programmes, housed in state-of-the-art facilities, cover the full range of scientific endeavour from the molecule to the population. With our NHS partners we also foster the highest possible standards in patient care.

For more information please visit: www.medsci.ox.ac.uk

Nuffield Department of Clinical Medicine (NDM) …fostering your career in science

The Nuffield Department of Clinical Medicine (NDM) is one of the largest departments of the University of Oxford and is part of the Medical Sciences Division, with responsibility for a significant part of the teaching of clinical students within the Medical School.
NDM has significant financial turnover and complexity, resulting from its diverse research portfolio, its geographical spread and its close links with NHS funding and strategic teams involved in the development and delivery of increasingly integrated clinical research platforms. For more information please visit: [http://www.ndm.ox.ac.uk/home](http://www.ndm.ox.ac.uk/home)

The Nuffield Department of Clinical Medicine has been presented with a Departmental Athena SWAN Silver award in recognition of the commitment made to promote gender equality through our organisational and cultural practices and our efforts to improve the working environment for both men and women. For more information please see our Departmental Athena SWAN pages: [https://www.ndm.ox.ac.uk/working-for-ndm/aboutndm/athenawan](https://www.ndm.ox.ac.uk/working-for-ndm/aboutndm/athenawan)

**Oxford Big Data Institute (BDI)**

The Big Data Institute (BDI) is a state-of-the-art building at Oxford University's Old Road Campus, which opened in April 2017. This interdisciplinary research centre focuses on the analysis of large, complex, heterogeneous data sets for research into the causes and consequences, prevention and treatment of disease. To this end, BDI researchers will develop, evaluate and deploy efficient methods for acquiring and analysing information for large clinical research studies. These approaches will be invaluable in identifying the associations between lifestyle exposures, genetic variants, infections and health outcomes around the globe.

Research is conducted in four themes: genomics, population health, infectious disease surveillance, and methodology (including informatics, statistics, and engineering). Big Data methods could transform the scale (breadth, depth and duration) and efficiency (data accumulation, storage, processing and dissemination) of large-scale clinical research. The work of the BDI requires people and projects that span traditional departmental boundaries and scientific disciplines, supported by technical resources to handle the vast quantities of data they generate.

Under the leadership of Professor Gil McVean (Director) and Professor Martin Landray (Deputy Director), the BDI will comprise around 350 researchers (approx. 30 research groups) drawn from a wide range of departments and will form an analytical hub, deeply connected to the wider experimental and clinical community in Oxford and beyond.

More information about the Big Data Institute is available at [www.bdi.ox.ac.uk](http://www.bdi.ox.ac.uk).

**Job Description**

**Background**

This is an exciting opportunity to join the new Big Data Institute, based at the University of Oxford, working with Professor Deirdre Hollingsworth and the neglected tropical disease (NTD) Modelling Consortium. Research at the BDI is focussed on analysis of biomedical big
Big Data Institute

data, and generation of health knowledge and information. The post holder will be leading research modelling the transmission dynamics of neglected tropical diseases, with a particular focus on trachoma, lymphatic filariasis or schistosomiasis, but also working on cross-disease research, such as diagnostics, sampling, targeting of interventions etc. You will be working within a team of modellers at BDI but also with partners in other national and international institutions. The work will include answering scientific questions regarding the dynamics of transmission, combined with more policy-focussed work responsive to the needs of international stakeholders. They will be expected to identify and lead the development of new research projects, particularly across the diseases and collaborating across institutions in the consortium.

Neglected tropical diseases are both treatable and preventable diseases that cause disfigurement, disability and impact life expectancy, education and long term potential of affected individuals. They affect the poorest populations of the world, the ‘bottom billion’. The World Health Organization has targeted several NTDs for elimination over the coming decade, and there is enormous global investment in these diseases due to their role in maintaining the cycle of poverty. Professor Hollingsworth and the NTD Modelling Consortium are developing mathematical models and statistical analyses to support national and international efforts to control and eliminate these diseases. The NTD Modelling Consortium works with a broad range of international partners, including intergovernmental bodies, national governments and non-governmental organisations.

The NTD Modelling Consortium is an international network of researchers developing mathematical models to understand the transmission dynamics of seven diseases. It is predominantly funded by the Bill and Melinda Gates Foundation. The consortium is led by Professor Hollingsworth and her team oversee the administrative and scientific management of the activities. They aim to provide high quality scientific advice to international and national policy makers, as well as provide input to a range of scientific activities. This requires not only excellence in multidisciplinary, collaborative research, but also a passion for effective communication of the outputs in novel and accessible ways.

Overview of the role

Reporting to the Principal Investigator. The post holder is a member of a research group with responsibility for carrying out research for a discrete area of a large project. The post holder provides guidance to junior members of the research group including research assistants, PhD students, and/or project volunteers

Responsibilities/duties

- Develop research questions within a specific context, conduct individual research, analysing detailed and complex qualitative and/or quantitative data from a variety of sources, and generate original ideas by building on existing concepts
- Develop and implement new research methodologies and materials
Big Data Institute

- Regularly write research articles at a national level for peer-reviewed journals, book chapters, and reviews. Present papers at national conferences, and lead seminars to disseminate research findings.

- Agree clear task objectives, organise, and delegate work to other members of the team and coach other members of the group on specialist methodologies or procedures.

- Raise research funds through grant applications and manage own area of a larger research budget.

- Share responsibility for shaping the research group's plans and the writing of group-funding applications for new research projects.

- Represent the research group at external meetings/seminars, either with other members of the group or alone.

- Carry out collaborative projects with colleagues in partner institutions, and research groups.

Hazard-specific / Safety-critical duties:
This job includes the following hazards or safety-critical activities which will require successful pre-employment health screening through our Occupational Health Service before the successful candidate will be allowed to start work:

- Travel outside of Europe or North America on University Business

Selection criteria

- Essential

  Hold or be close to completion of a relevant PhD/DPhil in infectious disease modelling, mathematical modelling, statistical modelling or a related field, and have relevant experience.

  Strong publication record and familiarity with the existing literature and research in the field of infectious disease modelling.

  Possess sufficient specialist knowledge in infectious disease modelling to develop research projects and methodologies.

  Ability to independently plan and manage a research project, including a research budget.

  Ability to raise research funds through making grant applications.
Desirable

- Experience of supervising staff
- Experience of managing a research budget
- Experience of making grant applications
- Experience of modelling neglected tropical diseases.
- Experience of working in or in collaboration with partners from low and middle-income countries.

How to apply

Before submitting an application, you may find it helpful to read the ‘Tips on applying for a job at the University of Oxford’ document, at https://www.ox.ac.uk/about/jobs/research/

If you would like to apply, click on the Apply Now button on the ‘Job Details’ page and follow the on-screen instructions to register as a new user or log-in if you have applied previously. Please provide details of two referees and indicate whether we can contact them now.

You will also be asked to upload a CV and a supporting statement. The supporting statement must explain how you meet each of the selection criteria for the post using examples of your skills and experience. This may include experience gained in employment, education, or during career breaks (such as time out to care for dependants).

Your application will be judged solely on the basis of how you demonstrate that you meet the selection criteria stated in the job description.

All applications must be received by midday on the closing date stated in the online advertisement.

Information for priority candidates

A priority candidate is a University employee who is seeking redeployment because they have been advised that they are at risk of redundancy, or on grounds of ill-health/disability. Priority candidates are issued with a redeployment letter by their employing departments.

If you are a priority candidate, please ensure that you attach your redeployment letter to your application (or email it to the contact address on the advert if the application form used for the vacancy does not allow attachments)
Should you experience any difficulties using the online application system, please email recruitment.support@admin.ox.ac.uk. Further help and support is available from www.ox.ac.uk/about_the_university/jobs/support/. To return to the online application at any stage, please go to: www.recruit.ox.ac.uk.

Please note that you will be notified of the progress of your application by automatic emails from our e-recruitment system. Please check your spam/junk mail regularly to ensure that you

Pre-employment screening
Please note that the appointment of the successful candidate will be subject to standard pre-employment screening, as applicable to the post. This will include right-to-work, proof of identity and references. We advise all applicants to read the candidate notes on the University's pre-employment screening procedures, found at: www.ox.ac.uk/about/jobs/preemploymentscreening/.

Data Privacy
Please note that any personal data submitted to the University as part of the job application process will be processed in accordance with the GDPR and related UK data protection legislation. For further information, please see the University's Privacy Notice for Job Applicants at: www.admin.ox.ac.uk/councilsec/compliance/gdpr/privacynotices/job/. The University's Policy on Data Protection is available at: www.admin.ox.ac.uk/councilsec/compliance/gdpr/universitypolicyondataprotection/.

The University’s policy on retirement
The University operates an Employer Justified Retirement Age (EJRA) for all academic posts and some academic-related posts. From 1 October 2017, the University has adopted an EJRA of 30 September before the 69th birthday for all academic and academic-related staff in posts at grade 8 and above. The justification for this is explained at: www.admin.ox.ac.uk/personnel/end/retirement/acrelretire8+.

For existing employees, any employment beyond the retirement age is subject to approval through the procedures: www.admin.ox.ac.uk/personnel/end/retirement/acrelretire8+.

There is no normal or fixed age at which staff in posts at grades 1–7 have to retire. Staff at these grades may elect to retire in accordance with the rules of the applicable pension scheme, as may be amended from time to time.

Equality of Opportunity
Entry into employment with the University and progression within employment will be determined only by personal merit and the application of criteria which are related to the duties of each particular post and the relevant salary structure. In all cases, ability to perform
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the job will be the primary consideration. No applicant or member of staff shall be discriminated against because of age, disability, gender reassignment, marriage or civil partnership, pregnancy or maternity, race, religion or belief, sex, or sexual orientation.

Benefits of working at the University

University Club and sports facilities

Membership of the University Club is free for all University staff. The University Club provides social, sporting and hospitality facilities. Staff can also use the University Sports Centre on Iffley Road at discounted rates, including a fitness centre, powerlifting room, and swimming pool. See [www.club.ox.ac.uk](http://www.club.ox.ac.uk) and [www.sport.ox.ac.uk/oxford-university-sports-facilities](http://www.sport.ox.ac.uk/oxford-university-sports-facilities).

Information for international staff

The University offers support and advice to international staff, including a visa loan scheme to cover the costs of UK visa applications for staff and their dependents. See [www.admin.ox.ac.uk/personnel/permits/reimburse&loanscheme/](http://www.admin.ox.ac.uk/personnel/permits/reimburse&loanscheme/).

Information for staff new to Oxford

If you are relocating to Oxfordshire from overseas or elsewhere in the UK, the University's Welcome Service website includes practical information about settling in the area, including advice on relocation, accommodation and local schools. See [www.welcome.ox.ac.uk](http://www.welcome.ox.ac.uk).

The University of Oxford Newcomers’ Club

The University of Oxford Newcomers’ Club is an organisation run by volunteers that aims to assist the partners of new staff to settle into Oxford and to provide them with an opportunity to meet people in the area. See [www.newcomers.ox.ac.uk](http://www.newcomers.ox.ac.uk).

Childcare

The University has excellent childcare services with five University nurseries, as well as University-supported places at many other private nurseries. For full details including how to apply and the costs, see [www.admin.ox.ac.uk/childcare](http://www.admin.ox.ac.uk/childcare).

Family-friendly benefits

The University subscribes to My Family Care service through which staff are eligible to register for emergency back-up childcare and adultcare services, a ‘speak to an expert’ advice service and a wide range of guides and webinars through a website called the Work+Family space. See: [www.admin.ox.ac.uk/personnel/staffinfo/benefits/family/mfc/](http://www.admin.ox.ac.uk/personnel/staffinfo/benefits/family/mfc/).

Disabled staff
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We are committed to supporting members of staff with disabilities or long-term health conditions. For further details, including information about how to make contact, in confidence, with the University’s Staff Disability Advisor, see www.admin.ox.ac.uk/eop/disab/staff.

Staff networks

The University has a number of staff networks including the Oxford Research Staff Society, BME staff network, LGBT+ staff network and a disabled staff network. You can find more information at www.admin.ox.ac.uk/eop/inpractice/networks/.

Additional benefits

Staff can enjoy a range of other benefits and discounts, including free entry to the Botanic Gardens and University colleges, and discounts at University museums. See www.admin.ox.ac.uk/personnel/staffinfo/benefits.